Amendments to the Claims

Claims 1 - 24 (canceled)

1	Claim 25 (currently amended): A method for dynamically tuning a directional antenna of a
2	wireless device [it would be nice for "device" here to cover both end-user devices and EPs (e.g.
3	cover EPs here to cover the tuning procedure without the baggage of claim 1). Is there a better
4	word, or may be should say "device or EP"] for communicating with an access point in a short-
5	range wireless networking environment, comprising the steps of:
6	providing at least one wireless device;
7	providing at least one access point;
8	establishing a network link between a selected one of the wireless devices and a selected
9	one of the access points using the directional antenna of the selected wireless device and an
10	omnidirectional antenna of the selected access point; and
11	setting a position of the directional antenna to minimize a bit error rate along the
12	established link.
1	Claim 26 (original): The method according to Claim 25, wherein the step of setting the position
2	of the directional antenna further comprises the steps of:
3	positioning the directional antenna at a plurality of angles toward the omnidirectional
4	antenna;
5	recording the bit error rate at each of the angles; and
6	selecting one of the angles which exhibits a minimal value of the bit error rate to be the

- 7 position of the directional antenna. Claim 27 (original): The method according to Claim 26, wherein the plurality of angles are selected by first locating an initial position beyond which communication using the directional 2 antenna is not possible. 3 1 Claim 28 (original): The method according to Claim 25, further comprising the step of setting a power of transmission of the directional antenna to a minimum value required to communicate on 2 the established link. 3 Claim 29 (original): The method according to Claim 28, wherein the step of setting the power of 1 transmission of the directional antenna further comprises the steps of: 2 setting the power of transmission to a default value; 3 4 recording a bit error rate at the default value; successively reducing the power of transmission until connectivity is lost or the bit error 5
- setting the power of transmission to be a value that results in the bit error rate staying below the threshold.

6

rate crosses a threshold; and

Claim 30 (original): The method according to Claim 29, wherein the threshold is a maximum acceptable value for the bit error rate.

- Claim 31 (original): The method according to Claim 25, wherein the selected wireless device is an extension point device.
- Claim 32 (original): The method according to Claim 25, wherein the selected wireless device is an end-user device.

Claims 33 - 56 (canceled)

a bit error rate along the established link.

Claim 57 (original): Computer program instructions for dynamically tuning a directional antenna of a wireless device for communicating with an access point in a short-range wireless networking environment, the computer program instructions embodied on one or more computer readable media and comprising:

computer program instructions for communicating with at least one wireless device;
computer program instructions for communicating with at least one access point;
computer program instructions for establishing a network link between a selected one of
the wireless devices and a selected one of the access points using the directional antenna of the
selected wireless device and an omnidirectional antenna of the selected access point; and
computer program instructions for setting a position of the directional antenna to minimize

Claim 58 (original): The computer program instructions according to Claim 57, wherein the computer program instructions for setting the position of the directional antenna further comprise:

3	computer program instructions for positioning the directional antenna at a plurality of
4	angles toward the omnidirectional antenna;
5	computer program instructions for recording the bit error rate at each of the angles; and
6	computer program instructions for selecting one of the angles which exhibits a minimal
7	value of the bit error rate to be the position of the directional antenna.
1	Claim 59 (original): The computer program instructions according to Claim 58, wherein the
2	plurality of angles are selected by first locating an initial position beyond which communication
3	using the directional antenna is not possible.
1	Claim 60 (original): The computer program instructions according to Claim 57, further
2	comprising computer program instructions for setting a power of transmission of the directional
3	antenna to a minimum value required to communicate on the established link.
1	Claim 61 (original): The computer program instructions according to Claim 60, wherein the
2	computer program instructions for setting the power of transmission of the directional antenna
3	further comprise:
4	computer program instructions for setting the power of transmission to a default value;
5	computer program instructions for recording a bit error rate at the default value;
6	computer program instructions for successively reducing the power of transmission until

computer program instructions for setting the power of transmission to be a value that

-7-

the bit error rate crosses a threshold; and

7

8

- 9 results in the bit error rate staying below the threshold.
- 1 Claim 62 (original): The computer program instructions according to Claim 61, wherein the
- threshold is a maximum acceptable value for the bit error rate.
- 1 Claim 63 (original): The computer program instructions according to Claim 57, wherein the
- 2 selected wireless device is an end device.

Claims 64 - 76 (canceled)

- 1 Claim 77 (original): A system for dynamically tuning a directional antenna of a wireless device for
- 2 communicating with an access point in a short-range wireless networking environment,
- 3 comprising:
- 4 at least one wireless device;
- 5 at least one access point;
- 6 means for establishing a network link between a selected one of the wireless devices and a
- selected one of the access points using the directional antenna of the selected wireless device and
- 8 an omnidirectional antenna of the selected access point; and
- 9 means for setting a position of the directional antenna to minimize a bit error rate along
- the established link.
- 1 Claim 78 (original): The system according to Claim 77, wherein the means for setting the

- 2 position of the directional antenna further comprises: means for positioning the directional antenna at a plurality of angles toward the 3 omnidirectional antenna; 4 means for recording the bit error rate at each of the angles; and 5 means for selecting one of the angles which exhibits a minimal value of the bit error rate to 6 be the position of the directional antenna. 7 Claim 79 (original): The system according to Claim 78, wherein the plurality of angles are 1 2 selected by first locating an initial position beyond which communication using the directional 3 antenna is not possible. 1 Claim 80 (original): The system according to Claim 77, further comprising means for setting a 2 power of transmission of the directional antenna to a minimum value required to communicate on 3 the established link, further comprising: means for setting the power of transmission to a default value; 5 means for recording a bit error rate at the default value; means for successively reducing the power of transmission until the bit error rate crosses a 6 threshold; and 8 means for setting the power of transmission to be a value that results in the bit error rate staying below the threshold. 9
 - Claim 81 (original): The system according to Claim 80, wherein the threshold is a maximum

1

2 acceptable value for the bit error rate.

Claims 82 - 91 (canceled)